

ERP 5.0-7.0MXLG

Electric forklift trucks

5,000-7,000 kg



Reliability and durability

- Proven and tested structural design is ideal for indoor and outdoor working conditions
- Intensive environmental testing enables reliability and durability
- Water cooled motors and controllers to maintain optimal operating temperatures
- Lithium battery
 - Side charging minimizes need to open battery compartment
 - Automatic heating function manages temperature recovery during discharge and before charging



Ergonomics and comfort

- Ergonomic design and optimized operator compartment improves driving experience
- Multiple seat options to suit most operator sizes
- Informative color display including performance mode settings
- Wide view mast provides good forward visibility
- Large tire size and high ground clearance provides optimal performance on uneven ground conditions



High efficiency and performance

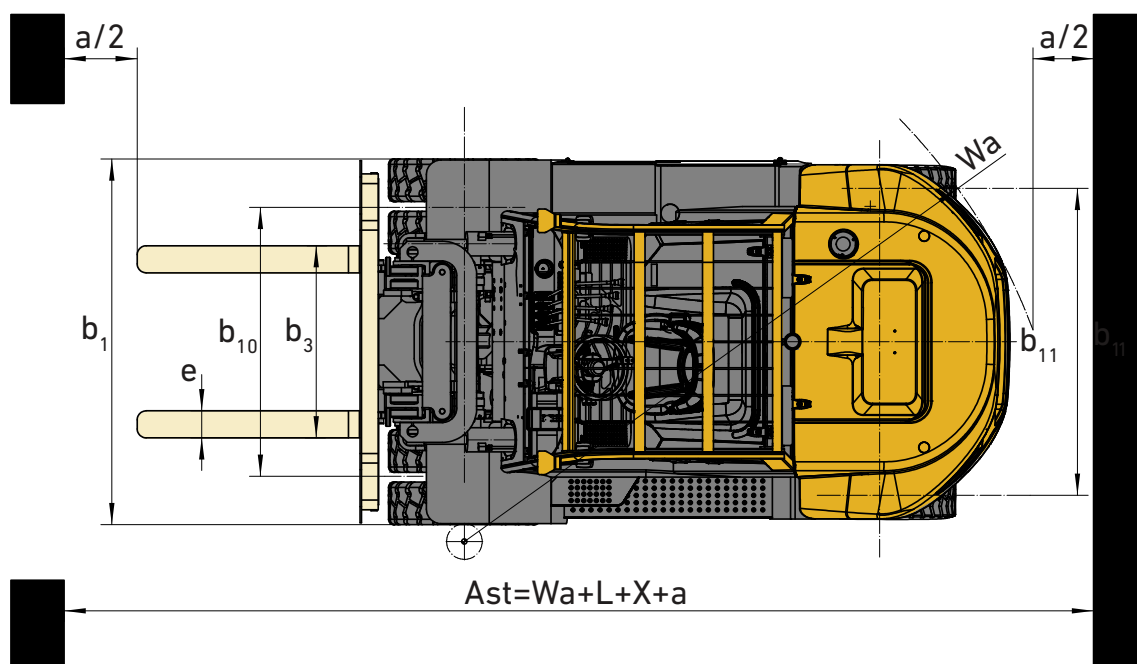
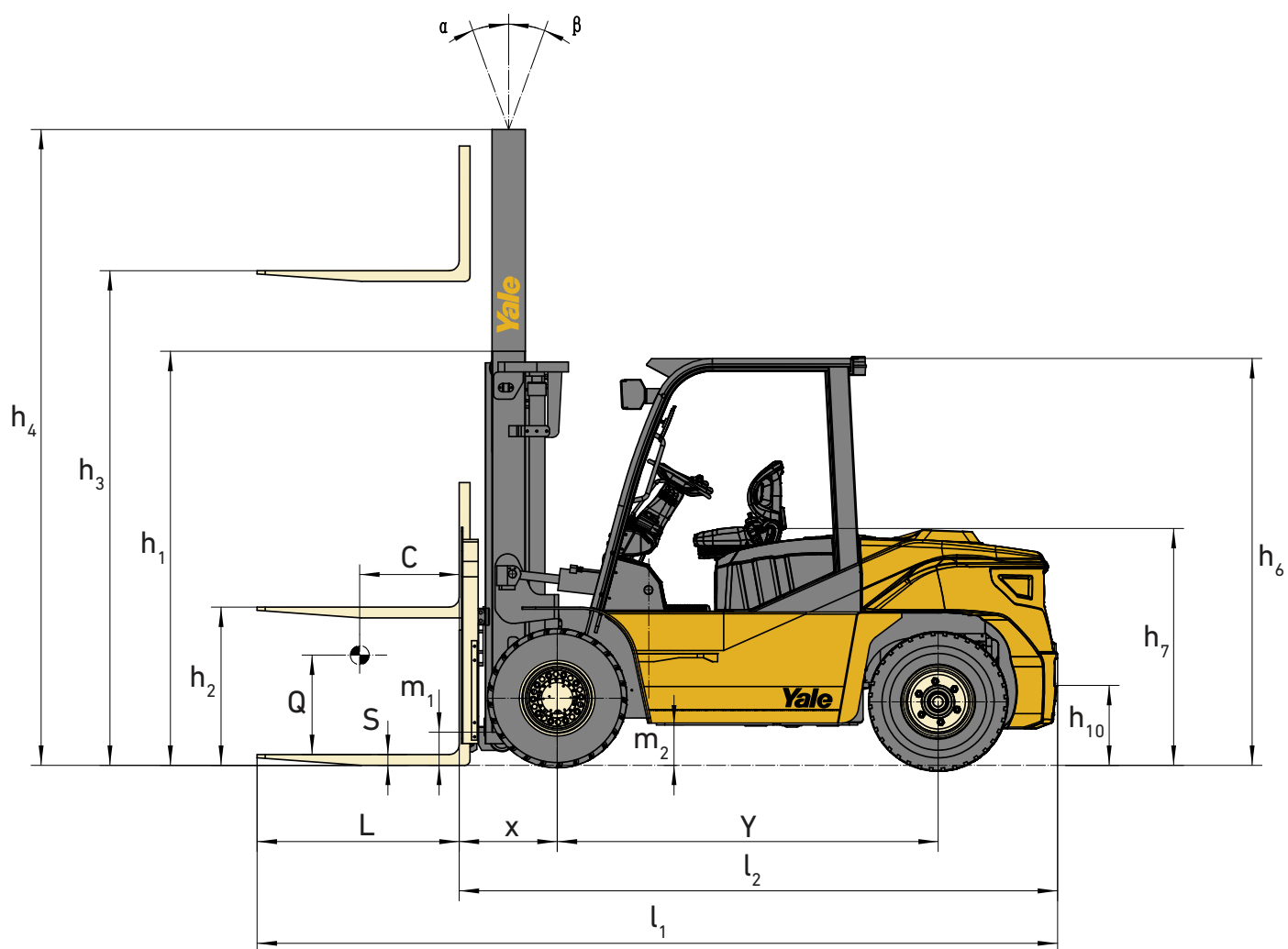
- High efficiency permanent magnet motor and controller system
 - Provides up to 95% working efficiency
 - Reduces energy consumption by 20%
- IPX4 waterproof rating
 - Enables continuous operation in wet conditions
- BMS and controller with leakage detection system
- Permanent magnet synchronous motor delivers high efficiency



Other features

- Standard curve deceleration
- Standard energy saving bright LED lights
- Standard USB charge ports
- Standard operator presense system
- Standard dual wheels
- Optional telemetry





ERP5.0-ERP7.0MXLG6 SPECIFICATIONS

DISTINGUISHING MARK	1.1	Manufacturer		Yale		
	1.2	Model designation		ERP5.0MXLG6	ERP6.0MXLG6	ERP7.0MXLGS6
	1.3	Drive: electric(battery or mains), diesel, petrol, fuel gas		Electric		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated		
	1.5	Rated capacity/rated load	Q (kg)	5000	6000	7000
	1.6	Load centre distance	c (mm)	600		
	1.8	Load distance, centre of drive axle to fork	x (mm)	590		
	1.9	Wheelbase (with mast vertical)	y (mm)	2300		
	WEIGHT	2.1	Service weight	kg	8510	9185
2.2		Axle loading, laden front/rear	kg	11980/1530	13466/1719	14900/1900
2.3		Axle loading, unladen front/rear	kg	3900/4610	4133/5052	4200/5600
TIRES/CHASSIS	3.1	Tires: Solid rubber, superelastic, pneumatic, polyurethane		Pneumatic		
	3.2	Tire size, front		8.25-15-14PR		
	3.3	Tire size, rear		8.25-15-14PR		
	3.5	Wheels, number front/rear		4x2		
	3.6	Tread, front	b10 (mm)	1489		
	3.7	Tread, rear	b11 (mm)	1700		
	DIMENSIONS	4.1	Tilt of mast/fork carriage, forward/backward	α /β (°)	10/12	
4.2		Height, mast lowered	h1 (mm)	2500	2500	2625
4.3		Free lift	h2 (mm)	205		
4.4		Lift	h3 (mm)	3000		
4.5		Height, mast extended ¹	h4 (mm)	4425		
4.7		Height of overhead guard (cabin) ²	h6 (mm)	2450		
4.8		Seat height/stand height ³	h7 (mm)	1400		
4.12		Towing coupling height	h10 (mm)	345		
4.19		Overall length	l1 (mm)	4715	4785	4830
4.20		Length to face of forks	l2 (mm)	3495	3565	3610
4.21		Overall width	b1 (mm)	2020		
4.22		Fork dimensions ISO2331	s/e/l (mm)	65/150/1220		
4.23		Fork carriage ISO 2328. Class/type, A/B		ISO 4A		
4.24		Fork carriage width ⁴	b3 (mm)	1845		
4.31		Ground clearance, laden, below mast	m1 (mm)	200		
4.32		Ground clearance, centre of wheelbase	m2 (mm)	230		
4.33		Load dimension b12 x l6 crossways	l2 x l6 (mm)	1000x1000		
4.34.1		Aisle width with pallets 1000mm x 1200mm crossways	Ast (mm)	5040	5090	5150
4.34.2		Aisle width with pallets 800mm x 1200mm lengthways	Ast (mm)	5240	5290	5350
4.35		Turning radius	Wa (mm)	3250	3300	3360
4.36		Inner turning radius	b13 (mm)	1105		
PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h	19/20		
	5.1.1	Travel speed, laden/unladen, backwards	km/h	15/16		
	5.2	Lifting speed, laden/unladen	mm/s	340/400		
	5.3	Lowering speed laden/unladen	mm/s	500/400		
	5.5	Drawbar pull laden/unladen	N	45000/40000		
	5.8	Maximum gradeability, laden/unladen	%	20/20		
	5.9	Acceleration time, laden/unladen 15m	sec	4.06/4.05		
	5.10	Service brake		Hydraulic		
ELECTRIC ENGINE	6.1	Drive motor rating S2 60 min	Kw	40KW/2400rpm		
	6.2	Lift motor rating at S3 15 %	Kw	40KW		
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		No		
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)	354.2V/228Ah		
	6.5	Battery weight	kg	674		
	6.6	Energy consumption according to VDI cycle	kWh/h	16.66	17.98	19.18
	6.7	Turnover output	t/h	310	335	357
	6.8	Energy consumption at turnover output	kWh in 1 h	16.24	17.53	18.7
ADDITIONAL DATA	8.1	Type of drive unit		AC		
	10.1	Operating pressure for attachments	bar	195		
	10.2	Oil volume for attachments ⁵	l/min	140		
	10.7	Sound pressure level at the driver's seat	dB (A)	74		
	10.7.1	Sound power level during the workcycle ⁶	dB (A)	91.7		
	10.8	Towing coupling, type DIN		PIN		

1. Without load backrest.

2. h_s subject to +/- 5mm tolerance.

3. Full suspension seat in depressed position.

4. Add 32mm with load backrest.

5. Variable.

6. LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053. Specification data is based on VDI 2198, with the following configuration: Complete truck with 3000mm 2-stage limited free lift mast, standard carriage and 1070mm forks, overhead guard and standard pneumatic drive and steer Tires.

CERTIFICATION: Yale lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equipment on this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

ERP5.0MXLG6 MAST DIMENSIONS

	Max fork height (mm)	Lowered height (mm)	Extended height without LBR (mm)	Extended height with LBR (mm)	Free lift height without LBR (mm)	Back tilt (°)	ERP5.0MXLG Capacities (kg) @ 600mm LC		
							Dual pneumatic tires		
							Without sideshift (kg)	With 1845mm integral sideshift carriage (kg)	1845mm integral sideshift carriage and fork positioner (kg)
							ERP5.0MXLG	ERP5.0MXLG	ERP5.0MXLG
2 STAGE LIMITED FREE LIFT	3000	2500	3955	4425	205	12	5000	4620	4620
	3300	2650	4255	4725	205	12	5000	4610	4610
	3500	2750	4455	4925	205	12	5000	4600	4600
	3750	2875	4705	5175	205	12	5000	4590	4590
	4000	3050	4955	5425	205	12	5000	4560	4560
	4500	3300	5455	5925	205	6	5000	4550	4550
	5000	3550	5955	6425	205	6	5000	4500	4500
	5500	3850	6455	6925	205	6	4750	3690	3690
	6000	4100	6955	7425	205	6	4410	3430	3430
2 STAGE FULL FREE LIFT	3000	2625	4110	4405	1555	12	5000	4580	4580
	3300	2775	4410	4705	1705	12	5000	4570	4570
	3500	2875	4610	4905	1805	12	5000	4560	4560
3 STAGE FULL FREE LIFT	4000	2505	5080	5405	1460	6	4830	4390	4390
	4350	2630	5430	5755	1585	6	4760	4740	4740
	4500	2680	5580	5905	1635	6	4730	4280	4280
	4800	2780	5880	6205	1735	6	4660	4210	4210
	5000	2880	6080	6405	1835	6	4620	4160	4160
	5400	3005	6480	6805	1960	6	4520	4060	4060
	6000	3305	7080	7405	2260	6	4310	3480	3480
	6500	3530	7580	7905	2485	6	3780	2920	2920

ERP6.0MXLG6 MAST DIMENSIONS

	Max fork height (mm)	Lowered height (mm)	Extended height without LBR (mm)	Extended height with LBR (mm)	Free lift height without LBR (mm)	Back tilt (°)	ERP6.0MXLG capacities (kg) @ 600mm LC		
							Dual pneumatic tires		
							Without sideshift (kg)	With 1845mm integral sideshift carriage (kg)	1845mm integral sideshift carriage and fork positioner (kg)
							ERP6.0MXLG	ERP6.0MXLG	ERP6.0MXLG
2 STAGE LIMITED FREE LIFT	3000	2500	3955	4425	205	12	6000	5550	5550
	3300	2650	4255	4725	205	12	6000	5540	5540
	3500	2750	4455	4925	205	12	6000	5540	5540
	3750	2875	4705	5175	205	12	6000	5530	5530
	4000	3050	4955	5425	205	12	6000	5500	5500
	4500	3300	5455	5925	205	6	6000	5480	5480
	5000	3550	5955	6425	205	6	6000	5460	5460
	5500	3850	6455	6925	205	6	5820	4610	4610
	6000	4100	6955	7425	205	6	5400	4250	4250
2 STAGE FULL FREE LIFT	3000	2625	4110	4405	1555	12	6000	5510	5510
	3300	2775	4410	4705	1705	12	6000	5500	5500
	3500	2875	4610	4905	1805	12	6000	5500	5500
3 STAGE FULL FREE LIFT	4000	2505	5080	5405	1460	6	5760	5220	5220
	4350	2630	5430	5755	1585	6	5670	5140	5140
	4500	2680	5580	5905	1635	6	5630	5100	5100
	4800	2780	5880	6205	1735	6	5550	5030	5030
	5000	2880	6080	6405	1835	6	5490	4970	4970
	5400	3005	6480	6805	1960	6	5380	4870	4870
	6000	3305	7080	7405	2260	6	5160	4270	4270
	6500	3530	7580	7905	2485	6	4620	3650	3650

ERP7.0MXLGS6 MAST DIMENSIONS

	Max fork height (mm)	Lowered height (mm)	Extended height without LBR (mm)	Extended height with LBR (mm)	Free lift height without LBR (mm)	Back tilt (°)	ERP7.0MXLG capacities (kg) @ 600mm LC		
							Dual pneumatic tires		
							Without sideshift (kg)	With 1845mm integral sideshift carriage (kg)	1845mm integral sideshift carriage and fork positioner (kg)
							ERP7.0MXLG	ERP7.0MXLG	ERP7.0MXLG
2 STAGE LIMITED FREE LIFT	3000	2625	4080	4425	205	12	7000	6820	6820
	3300	2775	4380	4725	205	12	7000	6810	6810
	3500	2875	4580	4925	205	12	7000	6800	6800
	3750	3000	4830	5175	205	12	7000	6800	6800
	4000	3175	5080	5425	205	12	7000	6760	6760
	4500	3425	5580	5925	205	6	7000	6750	6750
	5000	3675	6080	6425	205	6	7000	6610	6610
	5500	3975	6580	6925	205	6	6620	6210	6210
	6000	4225	7080	7425	205	6	6420	6170	6170
2 STAGE FULL FREE LIFT	3000	2625	4110	4425	1555	12	7000	6450	6450
	3300	2775	4410	4725	1705	12	7000	6440	6440
	3500	2875	4610	4925	1805	12	7000	6430	6430
3 STAGE FULL FREE LIFT	4000	2505	5080	5405	1460	6	6650	6040	6040
	4350	2630	5430	5755	1585	6	6560	5960	5960
	4500	2680	5580	5905	1635	6	6510	5920	5920
	4800	2780	5880	6205	1735	6	6430	5850	5850
	5000	2880	6080	6405	1835	6	6370	5790	5790
	5400	3005	6480	6805	1960	6	6170	5680	5680
	6000	3305	7080	7405	2260	6	5540	5260	5260
	6500	3530	7580	7905	2485	6	4950	4670	4670

LI-ION BATTERY DATA – ERP5.0-70MXLG6

Battery Type			354.2V228AH
Dimension	L x W x H	mm	1210 x 630 x 600
Weight		kg	679
Nominal voltage		V	354.2
Maximum voltage		V	398.2
Minimum voltage		V	280.5
Nominal capacity		Ah	228
Usable capacity		Ah	205
Nominal energy (Kwh)		kWh	80.8
Maximum continous discharge current (A)		A	180
Maximum discharge current (-15s) (A)		A	300
Maximum charge current (A)		A	150
Operating temperature		°C	-25°C to + 45°C *
Charging temperature		°C	0°C – 45°C
Power connector			Cable
Power connector position			Side
Charge connector			GB250A
Charge connector position			Side
Antiarc type			N/A
CANBUS speed			125Kbps for CH and TR
Chemistry			LFP

* Operating performance may be restricted below -10°C please consult the Operator Manual

LI-ION CHARGER DATA – ERP5.0-70MXLG6

Charger type		HWCD18-350V100A			HWCD18-350V150A		
Maximum output power	kW	40KW		30kW	60KW		
Rated output current	A	100A			150A		
Output voltage range	V	200-420V		100-420V	200-420V		
Current limit adjustable range	A	0-100A			0-150A		
Peak-peak murmurs	%	≤1%					
Precision of voltage regulation	%	≤±0.5%					
Steady current accuracy	%	≤±0.5%					
Parallel current sharing module	%	≤±5%					
Machine efficiency		Load ≥50% rated, the whole machine efficiency ≥94%					
Output protection		Short-circuit, over-current, over-voltage, reverse connection, current backflow protection					
Rated input voltage	Vac	Three-phase four-wire system					
	Vac	220Vac	380Vac	480Vac	220Vac	380Vac	480Vac
Input voltage range	Vac	187~253Vac	320~475Vac	323~520Vac	187~253Vac	320~475Vac	323~520Vac
Input current	A	132.7A	76.8A	45.6A	199.1A	115.2A	91.2A
Input frequency	Hz	45Hz~65Hz					
Power factor (PF)		≥0.99					
Current distortion (THD)	%	≤5%					
Input protection		Over-voltage, under-voltage, lack of phase, over-current protection					
Working environment temperature	°C	-30°C – 55°C normal operation; 57°C – 75°C reduction output; over 75°C shutdown protection					
Storage temperature	°C	-30°C ~ 75°C					
Relative humidity	%	0~95%					
Altitude		≤2000m full load output, 2000-3000m according to GB/T3859.2-19935.11.2, capacity reduction					
Insulation strength		Input – output: 3500VDC/10Ma/60Min					
		Input – shell: 2800VDC/10Ma/60Min					
		Output – shell: 2800VDC/10Ma/60Min					
		Input – output: DC1000V>20MΩ					
		Input – shell: DC1000V>20MΩ					
		Output – shell: DC1000V>20MΩ					
External dimension (host) (L × W × H)	mm	618 × 430 × 1100	628 × 390 × 860	618 × 435 × 815	628 × 520 × 1355	618 × 548 × 788	628 × 490 × 1100
One machine net weight	kg	135kg	90kg	75kg	155kg	100kg	105kg
Protection level		IP54					
Output plug-in model		WOER 125A DC Charging Gun			WOER 200A DC Charging Gun		
Output plug-in specifications		Comply with GB/T 20234-2015.3					
Heat dissipation mode		Forced wind cooling					
Auxiliary power supply		12V power supply 6A/75W					
Batteries		Lithium batteries					
CAN protocol		HYMH					

FEATURES LIST

PERFORMANCE	STD	OPT
354 volt electrical system with GB250 connection	●	
Standard (-5°C to 45°C) environmental construction*	●	
Drum brakes	●	
Antistatic strap	●	
354.2V228Ah (80.7kWh) integrated li-ion battery	●	
350V 100A 100A three phase lithium ion LFP CACTi charger with GB125 connector (input 220V)		●
350V 100A three phase lithium ion LFP CACTi charger with GB125 connector (input 320V-475V)		●
350V 100A 100A three phase lithium ion LFP CACTi charger with GB125 connector (input 480V)		●
350V 150A three phase lithium ion LFP CACTi charger with GB200A connector (input 220V)		●
350V 150A three phase lithium ion LFP CACTi charger with GB200A connector (input 320V-475V)		●
350V 150A three phase lithium ion LFP CACTi charger with GB200A connector (input 480V)		●
Battery disconnect	●	
DRIVE	STD	OPT
Directional lever	●	
Foot directional control (FDC)		●
Dual tread tyres	●	
Tires - super elastic 8.25x15NHS	●	
Tires - super elastic - non marking		●
Tires - pneumatic radial		●
Steering column mounted directional control	●	
Steering wheel with spinner knob	●	
Steer column with infinitely adjustable tilt	●	
On demand power steering	●	
LIFT	STD	OPT
2 stage limited free lift mast – class 4	●	
2 stage full free lift mast – class 4		●
3 stage full free lift mast – class 4		●
10° forward / 12° back mast tilt (for 2LFL & 2FFL 3000mm~3750mm)	●	
6° forward / 6° back mast tilt (for 2LFL & 2FFL & 3FFL 4000mm~5000mm)		●
3° forward / 6° back mast tilt (for 2LFL & 2FFL & 3FFL 5400mm~6500mm)		●
Tilt cylinder boots	●	
HANDLING	STD	OPT
Hook type standard carriage - 1845mm class 4	●	
Hook type standard carriage - 2100mm class 4		●
Hook type standard carriage - 1845mm class 4		●
Pin type integral sideshift carriage with fork positioner - 1845mm class 4		●
1845mm LDSJ hang-on sideshift carriage (hook type forks)		●
1905mm LDSJ hang-on sideshift carriage with fork positioner (hook type forks)		●
Hook type standard taper forks 1220 x 150 x 65mm	●	
Without load backrest		●
1305mm high load backrest (1845mm wide)		●
1305mm high load backrest (2100mm wide)		●
Manual lever hydraulic control	●	
Clamping function		●
2 function (0 auxiliary) hydraulic valve		●
3 function (1 auxiliary) hydraulic valve	●	
4 function (2 auxiliary) hydraulic valve		●

VISIBILITY	STD	OPT
LED front work light package with brake/tail/backup/turn		●
LED front and rear work light package with brake/tail/backup/turn		●
Audible reverse alarm		●
Switch activated strobe light		●
Dual side view mirrors		●
Rear reflector	●	
Blue LED pedestrian awareness spotlights		●
Red LED pedestrian awareness perimeter lines		●
Parking alarm	●	
ERGONOMICS	STD	OPT
2450mm overhead guard	●	
Non suspension vinyl seat	●	
Semi suspension vinyl seat SC1A-149		●
Full suspension vinyl seat		●
Standard seat belt with/without interlock	●	
Cabin options (partial, PVC, steel doors)		●
Rear drive handle with horn button		●
Console tray	●	
LCD dash display	●	
Heater/demister		●
Air conditioning		●
12v supply with twin USB charging sockets	●	
OPERATION	STD	OPT
Traction speed limiters	●	
Key switch start	●	
Battery disconnect	●	
Telemetry prepared	●	
Speed reduction in corners	●	
Foot direction control		●
Yale Vision™ Wireless Monitoring	●	
Yale Vision™ Wireless Access		●
Yale Vision™ Wireless Verification		●
SUPPLEMENTAL	STD	OPT
12 months / 2,000 Hours Manufacturer's Warranty	●	
60 months / 10,000 Hours Factory Installed Lithium Battery Warranty	●	
12 months Li-ion CACTi Charger Warranty	●	

* Operating performance may be restricted below -10°C please consult the Operator Manual
Option availability varies by region





About Yale

Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

MATERIALS HANDLING FOR:

Third-Party Logistics (3PL)

Auto Parts Distribution

Beverage

Cold & Frozen Foods

Food Distribution

Food Processing

Furniture & Furnishings

Health & Pharma

Home Centres

Retail & E-Commerce

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